AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): A tetrafluoroethylene polymer aqueous dispersion obtained by carrying out a tetrafluoroethylene polymerization in an aqueous medium in the presence of a fluorovinyl group-containing emulsifier,

wherein said tetrafluoroethylene polymer aqueous dispersion contains a particle comprising a tetrafluoroethylene polymer dispersed in said aqueous medium,

said fluorovinyl group-containing emulsifier comprises a fluorovinyl group-containing compound (I) represented by the general formula (I):

$CF_2=CF-(CF_2)_a-Y$ (I)

wherein a represents an integer of 1 to 10 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

a fluorovinyl group-containing compound (II) represented by the general formula (II):

$CF_2=CF-(CF_2C(CF_3)F)_b-Y$ (II)

wherein b represents an integer of 1 to 5 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

a fluorovinyl group-containing compound (III) represented by the general formula (III):

$CF_2=CFO-(CFX)_c-Y$ (III)

wherein X represents F or $-CF_3$, c represents an integer of 1 to 10 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

a fluorovinyl group-containing compound (IV) represented by the general formula (IV):

$CF_2=CFO-(CF_2CFXO)_d-(CF_2)_e-Y$ (IV)

wherein X represents F or $-CF_3$, d represents an integer of 1 to 10, e represents an integer of 1 to 3 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

a fluorovinyl group-containing compound (V) represented by the general formula (V):

$CH_2=CFCF_2O-(CF(CF_3)CF_2O)_f-CF(CF_3)-Y$ (V)

wherein f represents an integer of 0 to 10 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal, and/or

a fluorovinyl group-containing compound (VI) represented by the general formula (VI):

$CF_2=CFCF_2O-(CF(CF_3)CF_2O)_g-CF(CF_3)-Y$ (VI)

wherein g represents an integer of 1 to 10 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

said tetrafluoroethylene polymer aqueous dispersion has a fluorine-containing surfactant content of not higher than 1000 ppm by mass,

wherein the tetrafluoroethylene polymer has a tetrafluoroethylene unit content exceeding 40 mole percent.

2. (canceled).

3. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, wherein the tetrafluoroethylene polymer is a perfluoro-based polymer.

4. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, wherein the tetrafluoroethylene polymerization is carried out in the absence of any non-byproduct fluorine-containing surfactant.

5. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, wherein the fluorovinyl group-containing emulsifier comprises the fluorovinyl group-containing compound (I), the fluorovinyl group-containing compound (III), the fluorovinyl group-containing compound (IV) and/or the fluorovinyl group-containing compound (V).

6. (original): The tetrafluoroethylene polymer aqueous dispersion according to Claim 5, wherein the fluorovinyl group-containing emulsifier comprises a fluorovinyl group-containing compound (i) represented by the general formula (i):

$CF_2=CF\text{-}(O)_h\text{-}(CF_2CF(CF_3)O)_i\text{-}(CF_2)_j\text{-}Y$ (i)

wherein h represents an integer of 0 or 1, i represents an integer of 0 to 2, j represents an integer of 1 to 3 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal, and/or a fluorovinyl group-containing compound (ii) represented by the general formula (ii):

$CH_2=CFCF_2O\text{-}(CF(CF_3)CF_2O)_k\text{-}CF(CF_3)\text{-}Y$ (ii)

wherein k represents an integer of 0 to 3 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal.

7. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, which has a solid matter concentration of 5 to 70% by mass.

8. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, wherein the particle comprising the tetrafluoroethylene polymer has an average primary particle diameter of 50 to 500 nm.

9. (withdrawn): A tetrafluoroethylene polymer powder which is obtained by coagulating the tetrafluoroethylene polymer aqueous dispersion according to Claim 1.

10. (withdrawn): A tetrafluoroethylene polymer molding which is obtained by molding/processing using the tetrafluoroethylene polymer aqueous dispersion according to Claim 1.

11. (withdrawn): A method of producing a tetrafluoroethylene polymer aqueous dispersion by carrying out a tetrafluoroethylene polymerization in an aqueous medium in the presence of a fluorovinyl group-containing emulsifier,

wherein said tetrafluoroethylene polymer aqueous dispersion contains a particle comprising a tetrafluoroethylene polymer dispersed in said aqueous medium and has a fluorine-containing surfactant content of not higher than 1000 ppm by mass,

said fluorovinyl group-containing emulsifier is added in an amount of 0.00001 to 2% by mass relative to said aqueous medium, and

said fluorovinyl group-containing emulsifier comprises a fluorovinyl group-containing compound (I) represented by the general formula (I):

$CF_2=CF-(CF_2)_a-Y$ (I)

wherein a represents an integer of 1 to 10 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

a fluorovinyl group-containing compound (II) represented by the general formula (II):

$CF_2=CF-(CF_2C(CF_3)F)_b-Y$ (II)

wherein b represents an integer of 1 to 5 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

a fluorovinyl group-containing compound (III) represented by the general formula (III):

$CF_2=CFO-(CFX)_c-Y$ (III)

wherein X represents F or $-CF_3$, c represents an integer of 1 to 10 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

a fluorovinyl group-containing compound (IV) represented by the general formula (IV):

$CF_2=CFO-(CF_2CFXO)_d-(CF_2)_e-Y$ (IV)

wherein X represents F or $-CF_3$, d represents an integer of 1 to 10, e represents an integer of 1 to 3 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

a fluorovinyl group-containing compound (V) represented by the general formula (V):

$CH_2=CFCF_2O-(CF(CF_3)CF_2O)_f-CF(CF_3)-Y$ (V)

wherein f represents an integer of 0 to 10 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal, and/or

a fluorovinyl group-containing compound (VI) represented by the general formula (VI):

$CF_2=CFCF_2O-(CF(CF_3)CF_2O)_g-CF(CF_3)-Y$ (VI)

wherein g represents an integer of 1 to 10 and Y represents $-SO_3M$ or –COOM in which M represents H, NH_4 or an alkali metal,

wherein the tetrafluoroethylene polymer has a tetrafluoroethylene unit content exceeding 40 mole percent.

12. (withdrawn): The method of producing a tetrafluoroethylene polymer aqueous dispersion according to Claim 11, wherein the addition of the fluorovinyl group-containing emulsifier is carried out in the manner of a supplementary addition with the progress of a tetrafluoroethylene polymerization reaction.

13. (new): The tetrafluoroethylene polymer aqueous dispersion according to claim 1, which has a fluorine-containing surfactant content of not higher than 100 ppm.